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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,869	08/10/2006	Martin Israelsson	P19251-US1	7312
27045 ERICSSON INC	I EXAMINE			IINER
6300 LEGACY		WOO, KUO-KONG		
	M/S EVR 1-C-11 PLANO, TX 75024		ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE
			06/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/597,869	ISRAELSSON ET AL.	
Office Action Summary	Examiner	Art Unit	
	KUO WOO	2617	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tird will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 28 ≥ 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) 11-20 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 11-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or are subjected to by the Examin 10) ☐ The drawing(s) filed on is/are: a) ☐ according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position and filed are subjected to by the Examin according to a position	awn from consideration. or election requirement. er.	Examiner.	
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Status of the Claims

1. Claims 1-10 have been cancelled. Claims 11-20 have been amended on 1/28/2009 and are currently pending in this office action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims11-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hayashi (US-PGPUB 2004/0152453 A1) in view of Meago (US-PGPUB 2004/0223513 A1) and in further view of Ohlsson et al. (US-PGPUB 2002/0068571 A1).

Regarding claim 11, a method for registration of a drift Radio Network Controller (DRNC) said method comprising the steps of: Hayashi discloses "Defining a counter (¶30, unit 41 has a function for **counting the number of UEs** which exist in a zone of a cell under control of the RNC and receive an identical service) and a first threshold value" (¶40, step S17 that the number of UEs is equal to or more than the **threshold value**, the PtP system is switched to the PtM system in the RB setting unit

43 (step S19), wherein first threshold value is no MBMS session was set up in the system;

"RNC ID" for specifying the **moving source RNC**, which receive the MBMS service, by "1") occurring at the drift **radio network control** node "(¶34, a "UE ID" for specifying the **UE 20**, **and an "RNC** ID" for specifying the moving source RNC;

"Delaying registration (¶39, a threshold value are compared. If the number of UEs is smaller than the threshold value ("Y" in step S17), the PtP system is maintained) and (¶40, the number of UEs is equal to or more than the threshold value, the PtP system is switched to the PtM system in the RB setting unit 43 (step S19), and a message for setup of the RB (radio bearer) for the MBMS service is sent to the UE 20 (step S20) of the drift radio network control node with a core network node until the counter has exceeded the first threshold value", wherein pending on the threshold level notification (registration) is delayed until threshold value reached.

Regarding claim 12, Hayashi discloses" wherein the events occurring at the drift network control node which is counted by the counter is a number (¶ 40, the number of UEs is equal to or more than the threshold value, the PtP system is switched to the PtM system) of user equipment units for which a lur linking procedure is performed for the MBMS session" wherein the PtM is MBMS session.

Regarding claim13, Hayashi discloses "wherein the of events occurring at the drift network control node which is counted by the counter", However, Hayashi does not

explicitly disclose "the counter are time periods elapsed since an lur linking procedure for the MBMS session has been performed for a predetermined user equipment unit"

In an analogous art, Meago discloses "the counter are time periods elapsed since an lur linking procedure" (¶15, the period of interest", in a way that other RT services cannot access those resources) and (¶46, counting this is the function that UTRAN performs when it wishes to identify the number of multicast subscribers in a particular cell, that wish to receive a multicast session for a particular service), and (¶59, an MBMS programs is the MBMS service plan defining service availability times and expected characteristics of content, content delivery or date rates over time).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use Hayashi RNC teaching in invention of Meago provides method to overcome wasting time waiting and drawbacks of the prior art in delivering MBMS streaming service through a mobile radio network.

Rationales for arriving at a conclusion of obviousness suggested by the Supreme Court's decision in KSR include: Applying a know technique to a known device ready for improvement to yield predictable results.

Regarding claim14, Hayashi discloses "Defining a second threshold value" (¶39, If the number of UEs is smaller than the threshold value ("Y" in step S17), the PtP system is maintained, and service data is delivered through a dedicated channel for each UE) wherein second threshold value is small than Y in step S17;

"Delaying deregistration of the drift network control node until the counter has a value below the second threshold value.(¶39, an "RB Setup" message is also sent to

the UE 20 from the RB setting unit 43 of the RNC 5 such that the data is delivered by the PtP system (step S18), and (Since this judgment depends upon the number of UEs, the number of UEs (a counted value of the UE number counting unit 41) and a threshold value are compared) wherein until the second threshold value is reach the system will maintain current MBMS situation which mean delaying deregistration (removal of link).

Regarding claim15, Hayashi discloses "wherein the second value is selected".

However, Hayashi does not explicitly disclose" to provide hysteresis protection"

In an analogous art, Ohlsson discloses "to provide hysteresis protection" (¶ 11, a second event (Event 1B) is Radio Link Removal, which occurs when the measured and filtered pilot signal from the destination base station falls below the threshold of Expression) and (¶11, certain hysteresis value may be factored into the threshold expression) wherein hysteresis provide the protection of frequency of adding or removal of radio link to network.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use Hayashi RNC teaching in invention of Ohlsson provides a positive verification result is a condition for proceeding with the handover sequence (see ¶15) to overcome often switching and drawbacks of the prior art in delivering MBMS streaming service through a mobile radio network.

Rationales for arriving at a conclusion of obviousness suggested by the Supreme Court's decision in KSR include: Applying a know technique to a known device ready for improvement to yield predictable results

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Regarding claim16, has limitations similar to those treated in the above claim 11 rejection(s), and are met by the references as discussed above.

Regarding claim17, has limitations similar to those treated in the above claim 12 rejection(s), and are met by the references as discussed above.

Regarding claim18, has limitations similar to those treated in the above claim 13 rejection(s), and are met by the references as discussed above.

Regarding claim19, has limitations similar to those treated in the above claim 14 rejection(s), and are met by the references as discussed above

Regarding claim 20, has limitations similar to those treated in the above claim 15 rejection(s), and are met by the references as discussed above.

Conclusion

- 4. The prior art are made of records and not relied upon are considered pertinent to applicant's disclosure.
 - US-PGB 2004/0157640 A1 to Pirskanen et al describer system and method for counting UE in MBMS as recited in claim 11.
 - U.S. US-PGB 2001/0049287 to Plunkett teaches Hysteresis protection in Methods and device for preventing toggling between two zones has similar invention as recited in claim 15.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to KUO WOO whose telephone number is (571)270-7266. The examiner can normally be reached on Monday through Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KUO WOO/ Examiner, Art Unit 2617

/Lester Kincaid/ Supervisory Patent Examiner, Art Unit 2617